SEQUENCE LISTING

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<130> 11034US02

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<141> 2000-07-19

<150> 08/879,565

<151> 1997-06-20

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<170> PatentIn Ver. 2.1

<210> 1

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<212> DNA

<213> Human

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<223> "rBPI"

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Met Arg Glu Asn Met Ala Arg Gly

-30

-25

cct tgc aac gcg ccg aga tgg gtg tcc ctg atg gtg ctc gtc gcc ata 102
Pro Cys Asn Ala Pro Arg Trp Val Ser Leu Met Val Leu Val Ala Ile
-20 -15 -10

ggc acc gcc gtg aca gcg gcc gtc aac cct ggc gtc gtg gtc agg atc 150 Gly Thr Ala Val Thr Ala Ala Val Asn Pro Gly Val Val Val Arg Ile -5 -1 1 5

tcc cag aag ggc ctg gac tac gcc agc cag cag ggg acg gcc gct ctg

Ser Gln Lys Gly Leu Asp Tyr Ala Ser Gln Gln Gly Thr Ala Ala Leu

10 15 20 25

cag aag gag ctg aag agg atc aag att cct gac tac tca gac agc ttt 246

Gln	Lys	Glu	Leu	Lys 30	Arg	Ile	Lys	Ile	Pro 35	Asp	Tyr	Ser	Asp	Ser 40	Phe	
				ctt Leu												294
	_	_		cag Gln			_		_		_	_				342
			_	ttc Phe			_		_			_		_		390
		_	_	caa Gln	_	_				_	_				_	438
_	_		_	ggc Gly 110	_			_	_	_	_	_	_		_	486
		_		ggc Gly	_					_		_	_	_	_	534
			_	gtc Val		_				_	_		_			582
				ttc Phe												630
_		_	_	gtc Val	_							_			_	678
		Pro	Tyr	ttc Phe 190	Gln	Thr		Pro	Val						Ser	726
				aac Asn												774
		_	_	gta Val	_	_	_					_				822
				ccc Pro		_				_				_	-	870
				gta Val												918

														ctt Leu 280		966
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								_	_	_				atg Met	_	1062
	_			_		_			_			_		gtg Val	_	1110
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					_	_	_	_	_		_	Asn		att Ile	_	1350
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		_	_	_	_	_	_	_				_	Val	ctt Leu 440	-	1446
	cac His															1491
tga	aggca	acc a	aggg	gtgc	eg gg	gggct	tgtca	a gc	cgca	cctg	ttc	ctgai	tgg 9	gctgt	tggggc	1551
acc	ggct	gcc 1	tttc	ccca	gg ga	aatco	ctct	c ca	gatc	taa	ccaa	agago	ccc (cttgo	caaact	1611
tcttcgactc agattcagaa atgatctaaa cacgaggaaa cattattcat tggaaaagtg										1671						
cat	ggtgt	tgt a	attti	tagg	ga ti	tatga	agcti	t ct	ctcaa	aggg	ctaa	aggc	tgc a	agaga	atattt	1731
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1813

<210> 2

<211> 487

<212> PRT

<213> Human

<223> "rBPI"

<400> 2

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-30 -25 -20

Ser Leu Met Val Leu Val Ala Ile Gly Thr Ala Val Thr Ala Ala Val
-15
-10
-5
-1 1

Asn Pro Gly Val Val Arg Ile Ser Gln Lys Gly Leu Asp Tyr Ala
5 10 15

Ser Gln Gln Gly Thr Ala Ala Leu Gln Lys Glu Leu Lys Arg Ile Lys 20 25 30

Ile Pro Asp Tyr Ser Asp Ser Phe Lys Ile Lys His Leu Gly Lys Gly 35 40 45

His Tyr Ser Phe Tyr Ser Met Asp Ile Arg Glu Phe Gln Leu Pro Ser 50 55 60 65

Ser Gln Ile Ser Met Val Pro Asn Val Gly Leu Lys Phe Ser Ile Ser 70 75 80

Asn Ala Asn Ile Lys Ile Ser Gly Lys Trp Lys Ala Gln Lys Arg Phe
85 90 95

Leu Lys Met Ser Gly Asn Phe Asp Leu Ser Ile Glu Gly Met Ser Ile
100 105 110

Ser Ala Asp Leu Lys Leu Gly Ser Asn Pro Thr Ser Gly Lys Pro Thr 115 120 125

Ile Thr Cys Ser Ser Cys Ser Ser His Ile Asn Ser Val His Val His 130 135 140 145

Ile Ser Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys Lys
150 155 160

Ile Glu Ser Ala Leu Arg Asn Lys Met Asn Ser Gln Val Cys Glu Lys 165 170 175

Val Thr Asn Ser Val Ser Ser Lys Leu Gln Pro Tyr Phe Gln Thr Leu 180 185 190

Pro Val Met Thr Lys Ile Asp Ser Val Ala Gly Ile Asn Tyr Gly Leu 195 200 205

Val Ala Pro Pro Ala Thr Thr Ala Glu Thr Leu Asp Val Gln Met Lys 210 225 220 225

Gly Glu Phe Tyr Ser Glu Asn His His Asn Pro Pro Pro Phe Ala Pro 230 235 240

Pro Val Met Glu Phe Pro Ala Ala His Asp Arg Met Val Tyr Leu Gly 245 250 255

Leu Ser Asp Tyr Phe Phe Asn Thr Ala Gly Leu Val Tyr Gln Glu Ala 260 265 270

Gly Val Leu Lys Met Thr Leu Arg Asp Asp Met Ile Pro Lys Glu Ser 275 280 285

Lys Phe Arg Leu Thr Thr Lys Phe Phe Gly Thr Phe Leu Pro Glu Val 290 295 300 305

Ala Lys Lys Phe Pro Asn Met Lys Ile Gln Ile His Val Ser Ala Ser 310 315 320

Thr Pro Pro His Leu Ser Val Gln Pro Thr Gly Leu Thr Phe Tyr Pro 325 330 335

Ala Val Asp Val Gln Ala Phe Ala Val Leu Pro Asn Ser Ser Leu Ala 340 345 350

Ser Leu Phe Leu Ile Gly Met His Thr Thr Gly Ser Met Glu Val Ser 355 360 365

Ala Glu Ser Asn Arg Leu Val Gly Glu Leu Lys Leu Asp Arg Leu Leu 370 385 380 385

Leu Glu Leu Lys His Ser Asn Ile Gly Pro Phe Pro Val Glu Leu Leu 390 395 400

Gln Asp Ile Met Asn Tyr Ile Val Pro Ile Leu Val Leu Pro Arg Val 405 410 415

Asn Glu Lys Leu Gln Lys Gly Phe Pro Leu Pro Thr Pro Ala Arg Val 420 425 430

Gln Leu Tyr Asn Val Val Leu Gln Pro His Gln Asn Phe Leu Leu Phe 435 440 445

Gly Ala Asp Val Val Tyr Lys 450 455

<210> 3

<211> 456

<212> PRT

<213> Human

<220>

<223> bactericidal/permeability-increasing protein (BPI)
 (Figure 5)

<400> 3

- Val Asn Pro Gly Val Val Val Arg Ile Ser Gln Lys Gly Leu Asp Tyr
 1 5 10 15
- Ala Ser Gln Gln Gly Thr Ala Ala Leu Gln Lys Glu Leu Lys Arg Ile 20 25 30
- Lys Ile Pro Asp Tyr Ser Asp Ser Phe Lys Ile Lys His Leu Gly Lys 35 40 45
- Gly His Tyr Ser Phe Tyr Ser Met Asp Ile Arg Glu Phe Gln Leu Pro
 50 60
- Ser Ser Gln Ile Ser Met Val Pro Asn Val Gly Leu Lys Phe Ser Ile 65 70 75 80
- Ser Asn Ala Asn Ile Lys Ile Ser Gly Lys Trp Lys Ala Gln Lys Arg 85 90 95
- Phe Leu Lys Met Ser Gly Asn Phe Asp Leu Ser Ile Glu Gly Met Ser 100 105 110
- Ile Ser Ala Asp Leu Lys Leu Gly Ser Asn Pro Thr Ser Gly Lys Pro 115 120 125
- Thr Ile Thr Cys Ser Ser Cys Ser Ser His Ile Asn Ser Val His Val 130 135 140
- His Ile Ser Lys Ser Lys Val Gly Trp Leu Ile Gln Leu Phe His Lys
 145 150 155 160
- Lys Ile Glu Ser Ala Leu Arg Asn Lys Met Asn Ser Gln Val Cys Glu
 165 170 175
- Lys Val Thr Asn Ser Val Ser Ser Glu Leu Gln Pro Tyr Phe Gln Thr 180 185 190
- Leu Pro Val Met Thr Lys Ile Asp Ser Val Ala Gly Ile Asn Tyr Gly
 195 200 205
- Leu Val Ala Pro Pro Ala Thr Thr Ala Glu Thr Leu Asp Val Gln Met 210 215 220
- Lys Gly Glu Phe Tyr Ser Glu Asn His His Asn Pro Pro Pro Phe Ala 225 230 235 240
- Pro Pro Val Met Glu Phe Pro Ala Ala His Asp Arg Met Val Tyr Leu 245 250 255
- Gly Leu Ser Asp Tyr Phe Phe Asn Thr Ala Gly Leu Val Tyr Gln Glu 260 265 270
- Ala Gly Val Leu Lys Met Thr Leu Arg Asp Asp Met Ile Pro Lys Glu 275 280 285
- Ser Lys Phe Arg Leu Thr Thr Lys Phe Phe Gly Thr Phe Leu Pro Glu 290 295 300

Val Ala Lys Lys Phe Pro Asn Met Lys Ile Gln Ile His Val Ser Ala 305 310 315 320

Ser Thr Pro Pro His Leu Ser Val Gln Pro Thr Gly Leu Thr Phe Tyr 325 330 335

Pro Ala Val Asp Val Gln Ala Phe Ala Val Leu Pro Asn Ser Ser Leu 340 345 350

Ala Ser Leu Phe Leu Ile Gly Met His Thr Thr Gly Ser Met Glu Val 355 360 365

Ser Ala Glu Ser Asn Arg Leu Val Gly Glu Leu Lys Leu Asp Arg Leu 370 375 380

Leu Leu Glu Leu Lys His Ser Asn Ile Gly Pro Phe Pro Val Glu Leu 385 390 395 400

Leu Gln Asp Ile Met Asn Tyr Ile Val Pro Ile Leu Val Leu Pro Arg
405 410 415

Val Asn Glu Lys Leu Gln Lys Gly Phe Pro Leu Pro Thr Pro Ala Arg 420 425 430

Val Gln Leu Tyr Asn Val Val Leu Gln Pro His Gln Asn Phe Leu Leu 435 440 445

Phe Gly Ala Asp Val Val Tyr Lys 450 455

<210> 4

<211> 456

<212> PRT

<213> Human

<220>

<223> lipopolysaccharide binding protein (LBP) (Figure
5)

<400> 4

Ala Asn Pro Gly Leu Val Ala Arg Ile Thr Asp Lys Gly Leu Gln Tyr
1 5 10 15 .

Ala Ala Gln Glu Gly Leu Leu Ala Leu Gln Ser Glu Leu Leu Arg Ile 20 25 30

Thr Leu Pro Asp Phe Thr Gly Asp Leu Arg Ile Pro His Val Gly Arg 35 40 45

Gly Arg Tyr Glu Phe His Ser Leu Asn Ile His Ser Cys Glu Leu Leu
50 60

His Ser Ala Leu Arg Pro Val Pro Gly Gln Gly Leu Ser Leu Ser Ile 65 70 75 80

Ser Asp Ser Ser Ile Arg Val Gln Gly Arg Trp Lys Val Arg Lys Ser

Phe Phe Lys Leu Gln Gly Ser Phe Asp Val Ser Val Lys Gly Ile Ser 100 105 Ile Ser Val Asn Leu Leu Gly Ser Glu Ser Ser Gly Arg Pro Thr 120 Val Thr Ala Ser Ser Cys Ser Ser Asp Ile Ala Asp Val Glu Val Asp Met Ser Gly Asp Leu Gly Trp Leu Leu Asn Leu Phe His Asn Gln Ile Glu Ser Lys Phe Gln Lys Val Leu Glu Ser Arg Ile Cys Glu Met Ile Gln Lys Ser Val Ser Ser Asp Leu Gln Pro Tyr Leu Gln Thr Leu Pro 185 Val Thr Thr Glu Ile Asp Ser Phe Ala Asp Ile Asp Tyr Ser Leu Val 200 205 Glu Ala Pro Arg Ala Thr Ala Gln Met Leu Glu Val Met Phe Lys Gly 215 Glu Ile Phe His Arg Asn His Arg Ser Pro Val Thr Leu Leu Ala Ala 225 230 235 Val Met Ser Leu Pro Glu Glu His Asn Lys Met Val Tyr Phe Ala Ile 250 Ser Asp Tyr Val Phe Asn Thr Ala Ser Leu Val Tyr His Glu Glu Gly 265 Tyr Leu Asn Phe Ser Ile Thr Asp Asp Met Ile Pro Pro Asp Ser Asn Ile Arg Leu Thr Thr Lys Ser Phe Arg Pro Phe Val Pro Arg Leu Ala Arg Leu Tyr Pro Asn Met Asn Leu Glu Leu Gln Gly Ser Val Pro Ser Ala Pro Leu Leu Asn Phe Ser Pro Gly Asn Leu Ser Val Asp Pro Tyr 330 Met Glu Ile Asp Ala Phe Val Leu Leu Pro Ser Ser Lys Glu Pro Val Phe Arg Leu Ser Val Ala Thr Asn Val Ser Ala Thr Leu Thr Phe 360 Asn Thr Ser Lys Ile Thr Gly Phe Leu Lys Pro Gly Lys Val Lys Val 375 Glu Leu Lys Glu Ser Lys Val Gly Leu Phe Asn Ala Glu Leu Leu Glu 390 395

Ala Leu Leu Asn Tyr Tyr Ile Leu Asn Thr Phe Tyr Pro Lys Phe Asn 405 410 415

Asp Lys Leu Ala Glu Gly Phe Pro Leu Pro Leu Lys Arg Val Gln
420 425 430

Leu Tyr Asp Leu Gly Leu Gln Ile His Lys Asp Phe Leu Phe Leu Gly 435 440 445

Ala Asn Val Gln Tyr Met Arg Val 450 455

<210> 5

<211> 476

<212> PRT

<213> Human

<220>

<223> phospholipid transfer protein (PLTP) (Figure 5)

<400> 5

Glu Phe Pro Gly Cys Lys Ile Arg Val Thr Ser Lys Ala Leu Glu Leu 1 5 10 15

Val Lys Gln Glu Gly Leu Arg Phe Leu Glu Gln Glu Leu Glu Thr Ile 20 25 30

Thr Ile Pro Asp Leu Arg Gly Lys Glu Gly His Phe Tyr Tyr Asn Ile 35 40 45

Ser Glu Val Lys Val Thr Glu Leu Gln Leu Thr Ser Ser Glu Leu Asp 50 55 60

Phe Gln Pro Gln Gln Glu Leu Met Leu Gln Ile Thr Asn Ala Ser Leu 65 70 75 80

Gly Leu Arg Phe Arg Arg Gln Leu Leu Tyr Trp Phe Phe Tyr Asp Gly 85 90 95

Gly Tyr Ile Asn Ala Ser Ala Glu Gly Val Ser Ile Arg Thr Gly Leu 100 105 110

Glu Leu Ser Arg Asp Pro Ala Gly Arg Met Lys Val Ser Asn Val Ser 115 120 125

Cys Gln Ala Ser Val Ser Arg Met His Ala Ala Phe Gly Gly Thr Phe 130 140

Lys Lys Val Tyr Asp Phe Leu Ser Thr Phe Ile Thr Ser Gly Met Arg 145 150 155 160

Phe Leu Leu Asn Gln Gln Ile Cys Pro Val Leu Tyr His Ala Gly Thr 165 170 175

Val Leu Leu Asn Ser Leu Leu Asp Thr Val Pro Val Arg Ser Ser Val 180 185 190 Asp Glu Leu Val Gly Ile Asp Tyr Ser Leu Met Lys Asp Pro Val Ala 195 200 205

Ser Thr Ser Asn Leu Asp Met Asp Phe Arg Gly Ala Phe Phe Pro Leu 210 215 220

Thr Glu Arg Asn Trp Ser Leu Pro Asn Arg Ala Val Glu Pro Gln Leu 225 230 235 240

Gln Glu Glu Arg Met Val Tyr Val Ala Phe Ser Glu Phe Phe 245 250 255

Asp Ser Ala Met Glu Ser Tyr Phe Arg Ala Gly Ala Leu Gln Leu Leu 260 265 270

Leu Val Gly Asp Lys Val Pro His Asp Leu Asp Met Leu Leu Arg Ala 275 280 285

Thr Tyr Phe Gly Ser Ile Val Leu Ser Pro Ala Val Ile Asp Ser 290 295 300

Pro Leu Lys Leu Glu Leu Arg Val Leu Ala Pro Pro Arg Cys Thr Ile 305 310 315 320

Lys Pro Ser Gly Thr Thr Ile Ser Val Thr Ala Ser Val Thr Ile Ala 325 330 335

Leu Val Pro Pro Asp Gln Pro Glu Val Gln Leu Ser Ser Met Thr Met 340 345 350

Asp Ala Arg Leu Ser Ala Lys Met Ala Leu Arg Gly Lys Ala Leu Arg 355 360 365

Thr Gln Leu Asp Leu Arg Arg Phe Arg Ile Tyr Ser Asn His Ser Ala 370 375 380

Leu Glu Ser Leu Ala Leu Ile Pro Leu Gln Ala Pro Leu Lys Thr Met 385 390 395 400

Leu Gln Ile Gly Val Met Pro Met Leu Asn Glu Arg Thr Trp Arg Gly
405 410 415

Val Gln Ile Pro Leu Pro Glu Gly Ile Asn Phe Val His Glu Val Val 420 425 430

Thr Asn His Ala Gly Phe Leu Thr Ile Gly Ala Asp Leu His Phe Ala 435 440 445

Lys Gly Leu Arg Glu Val Ile Glu Lys Asn Arg Pro Ala Asp Val Arg 450 455 460

Ala Ser Thr Ala Pro Thr Pro Ser Thr Ala Ala Val 465 470 475

<210> 6

<211> 470

<212> PRT

<213> Human

<220>

<223> cholesteryl ester transfer protein (CETP) (Figure
5)

<400> 6

His Glu Ala Gly Ile Val Cys Arg Ile Thr Lys Pro Ala Leu Leu Val 1 5 10 15

Leu Asn His Glu Thr Ala Lys Val Ile Gln Thr Ala Phe Gln Arg Ala
20 25 30

Ser Tyr Pro Asp Ile Thr Gly Glu Lys Ala Met Met Leu Leu Gly Gln 35 40 45

Val Lys Tyr Gly Leu His Asn Ile Gln Ile Ser His Leu Ser Ile Ala 50 55 60

Ser Ser Gln Val Glu Leu Val Glu Ala Lys Ser Ile Asp Val Ser Ile 65 70 75 80

Gln Asn Val Ser Val Val Phe Lys Gly Thr Leu Lys Tyr Gly Tyr Thr 85 90 95

Thr Ala Trp Trp Leu Gly Ile Asp Gln Ser Ile Asp Phe Glu Ile Asp 100 105 110

Ser Ala Ile Asp Leu Gln Ile Asn Thr Gln Leu Thr Cys Asp Ser Gly 115 120 125

Arg Val Arg Thr Asp Ala Pro Asp Cys Tyr Leu Ser Phe His Lys Leu 130 135 140

Leu Leu His Leu Gln Gly Glu Arg Glu Pro Gly Trp Ile Lys Gln Leu 145 150 155 160

Phe Thr Asn Phe Ile Ser Phe Thr Leu Lys Leu Val Leu Lys Gly Gln 165 170 175

Ile Cys Lys Glu Ile Asn Val Ile Ser Asn Ile Met Ala Asp Phe Val 180 185 190

Gln Thr Arg Ala Ala Ser Ile Leu Ser Asp Gly Asp Ile Gly Val Asp 195 . 200 205

Ile Ser Leu Thr Gly Asp Pro Val Ile Thr Ala Ser Tyr Leu Glu Ser 210 215 220

His His Lys Gly His Phe Ile Tyr Lys Asn Val Ser Glu Asp Leu Pro 225 230 235 240

Leu Pro Thr Phe Ser Pro Thr Leu Leu Gly Asp Ser Arg Met Leu Tyr
245 250 255

Phe Trp Phe Ser Glu Arg Val Phe His Ser Leu Ala Lys Val Ala Phe 260 265 270

Gln Asp Gly Arg Leu Met Leu Ser Leu Met Gly Asp Glu Phe Lys Ala 275 280 285

Val Leu Glu Thr Trp Gly Phe Asn Thr Asn Gln Glu Ile Phe Gln Glu 290 295 300

Val Val Gly Gly Phe Pro Ser Gln Ala Gln Val Thr Val His Cys Leu 305 310 315 320

Lys Met Pro Lys Ile Ser Cys Gln Asn Lys Gly Val Val Asn Ser 325 330 335

Ser Val Met Val Lys Phe Leu Phe Pro Arg Pro Asp Gln Gln His Ser 340 345 350

Val Ala Tyr Thr Phe Glu Glu Asp Ile Val Thr Thr Val Gln Ala Ser 355 360 365

Tyr Ser Lys Lys Leu Phe Leu Ser Leu Leu Asp Phe Gln Ile Thr 370 375 380

Pro Lys Thr Val Ser Asn Leu Thr Glu Ser Ser Ser Glu Ser Ile Gln 385 390 395 400

Ser Phe Leu Gln Ser Met Ile Thr Ala Val Gly Ile Pro Glu Val Met 405 410 415

Ser Arg Leu Glu Val Val Phe Thr Ala Leu Met Asn Ser Lys Gly Val 420 425 430

Ser Leu Phe Asp Ile Ile Asn Pro Glu Ile Ile Thr Arg Asp Gly Phe 435 440 445

Leu Leu Gln Met Asp Phe Gly Phe Pro Glu His Leu Leu Val Asp 450 455 460

Phe Leu Gln Ser Leu Ser 465 470

<210> 7

<211> 24

<212> DNA <213> Human

<220>

<223> BPI-53

<400> 7

actggttcca tggaggtcag cgcc

24

<210> 8

<211> 29

<212> DNA

<213> Human

<220>

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<220> <223>	oligonucleotide from XcmI site to SphI site within BPI gene (encoding residues 348-361) containing the codon TCC for the serine at amino acid position 351	
<400> cccaa	9 ctect ceetggette cetetteetg attggeatge ac	42
<210><211><212><213>	42	
<220> <223>	Oligonucleotide complementary to SEQ ID NO:5	
<400> gggtto	10 cagga gggaccgaag ggagaaggac taaccgtacg tg	42
<210><211><211><212><213>	14	•
<220> <223>	"wild type" amino acid sequence of residues 348-361 in BPI	
<400> Pro As	11 sn Ser Ser Leu Ala Ser Leu Phe Leu Ile Gly Met His 5 10	
<210><211><211><212><213>	42	
<220> <223>	oligonucleotide from XcmI site to SphI site within the BPI gene (encoding residues 348-361) containing the codon GCC for alanine at amino acid	

1

<400> 12 cccaactccg ccctggcttc cctcttcctg attggcatgc ac 42 <210> 13 <211> 42 <212> DNA <213> Human <220> <223> Oligonucleotide complementary to SEQ ID NO:8 <400> 13 gggttcaggc gggaccgaag ggagaaggac taaccgtacg tg 42 <210> 14 <211> 14 <212> PRT <213> Human <223> "nonglycosylated" amino acid sequence of residues 348-361 in BPI Pro Asn Ser Ala Leu Ala Ser Leu Phe Leu Ile Gly Met His 5 10

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